

The Atom and Nuclear Engineering

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AVAILABLE: Library of Congress

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10-12-59

HAVLIK, J.

The use of radioisotopes in industry.

P. 301, (Strojoelektrotechnicky Casopis) Vol. 3, no. 5, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

HAVELKA, J.

"Accumulation hydroelectric-power plants in the electrification system."

ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 3, March 1959

Monthly List of East European Accessions Index (EEAI), Library of Congress,
Vol. 8, No. 8, August 1959

Unclassified

HAVELKA, Jan, inz., dr.

Selection of the most economical system of power transmission.
Energetika Cz 11 no.1:8-11 Ja '61.

HAVEIKA, J., inz.; KLEMENT, C.

Static tables of steel pipes. Strojrenstvi 15 no.1:Suppl:
Tabulky pro konstruktery 15 no.1:1-4 Ja '65.

HAVELKA, Jan. inz., dr.

Electromechanical strength of disk-shaped suspension insulators.
Energetika Cz 12 no.9:449-454 S '62.

1. Energovod, n.p., Praha.

PROCHAZKA, J.; SIMKOVA, V.; HAVELKA, J.; HEJZLAR, M.; VIKLICKY, J.; KARGEROVA, A.;
KUBIKOVA, M.

On the problem of the penetration of the placenta by chloramphenicol. Preliminary report. Cesk. pediat. 19 no.4:311-314 Ap'64.

~~1.5. Laborator~~ pro vyzkum patologie, terapie a prevence infekc-nich nemoci fakulty detskeho lekarstvi KU v Praze (vedouci: prof.dr. J.Prochazka, DrSc.); Vojensky ustav hygieny, epidemiologie a mikrobiologie v Praze (prednosta: MUDr.M.Hejzlar) a Patologickoanatomicke oddeleni nemocnice na Bulovce, (vedouci: doc.dr. J.Viklicky).

*

SCHAHN, Bohdan, 'naz; PALAC, Miroslav, 'naz; DVALKA, Jaroslav, 'naz.

Some metallographic by Mountains. Sbor
VSB Ostrava IO no 1/2:159-165 '64.

1. Submitted December 27, 1963.

H. VERNER, Jaxson, Ark. So.

Regional Director, Dept. of the State, New York, New York
 File No. 172-243-247-164.

1. Submitted January 15, 1964.

HAVELKA, Jaroslav, inz.

Czechoslovak highways from the viewpoint of international transportation. Siln doprava 11 no.10:4-5 S '63.

HAVELKA, Jaroslav, inz.

On the occurrence of regional metamorphosis on the basis of a study of macrotextures in sulfidic mineralization of pyrites in the Zlate Hory-Zapad area. Sbor VSB Ostrava 9 no.4:531-548 '63.

NEVALKA, Jaroslav, inz.; KOLAR, Miroslav, inz.; KUBICKÝ, Bohdan, inz.

Remarks on the metallogeny of the Jeseníky ore deposit area.
Geol průzkum 6 no. 7:210 JI '64.

1. Higher School of Mining, Ostrava.

HAVELKA, K.

The reinforced - concrete water tower of the city of Trnava.

P. 5 (Slovenska akademie vied. Ustav stavebnictva a architektury. PRACE, 1954
(Published 1956) Bratislava. Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

HAVELKA, K.

Present-day situation and prospects of the reinforced-concrete theory in our country; results of the conference of specialists in concrete construction.

p. 69
Vol. 3, no. 2, 1955
STAVEBNICKY CASOPIS
Bratislava

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 3
March 1956

HAVETKA, KAROL

Predpate kruhove zakladove dosky premenneho prierezu. Bratislava, Vydavatelstvo Slovenskej akademie vied, 1956. 229 p. (Pre-stressed circular foundation slabs with variable cross sections. English, French, German, and Russian summaries. diags., tables (8 fold. in pocket)

IU

Not in DLC

SO: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 8, Aug 1957. Uncl.

Large synchronous motor to power piston compressors. pt.2.pl67.
NOVA TECHNIKA. (Rada vedeckych technickych spolecnosti pri
Ceskoslovenske akademii ved) Praha. Vol. 1, no. 6, June 1956.

SOURCE: East European Acquisitions List, (EEAL), Library of Congress
Vol. 5, no. 12, December 1956

HAVEIKA, K.

HAVELKA, K. Solving the problem of rigid flat constructions by means of linear reduction. p. 75, Vol 4, no 2, 1956 STAVEBNICKY CASOPIS Bratislava, Czechoslovakia

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

HAVELKA, K.; ZARUBA, I.

Notes on the Fifth Congress of the International Association for Bridge and Structural Engineering in Lisbon. p. 201. (Stavebnicky Casopis, Vol. 4, No. 4, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

HAVELKA, K.

Large synchronous motor for the drive of a piston type compressor.

p. 16 (CZECHOSLOVAK HEAVY INDUSTRY) No. 7, 1956,
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

NAVILKA, E.; VALICHA, J.

Air-cooled turboalternators. p. 25. (CZECHOSLOVAK HEAVY INDUSTRY, No. 10, 1956, Prague, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

HAVELKA, K.

Professor Ladislav Zaruba's seventy years; a biographic sketch. p.9. (Stavebnicky Casopis. Bratislava. Vol. 5, no. 1, 1957.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 7, July 1957. Uncl.

HAVELKA, K.

Synchronous motors in the works of Professor Sumec. p. 448. (ELEKTROTECHNICKY
OBZOR, Vol. 46, No. 8, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec1957. Uncl.

HAVELKA, K.; PYTLIK, F.

"30,000 kvAr. hydrogen-cooled synchronous compensators."

p. 22 (Czechoslovak Heavy Industry /Special issue/ 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,
September 1958

HAVELKA, K.; Vanicek, J.

"New air-cooled turboalternators."

ELEKTROTECHNIK, Praha, Czechoslovakia, Vol. 44, no. 5, May 1959

Monthly List of East European Accessions Index (EEAI), Library of Congress,
Vol. 8, No. 8, August 1959

Unclassified

HAVELKA, Karol, prof., inz., dr., Dr.Sc.

Bridge plates of the optional shape and rigidity. Stav cas
11 no.1/2:5-21 '63.

1. Clen.korespondent Slovenskej akademie vied; Vysoka skola
technicka, Bratislava.

HAVELKA, Karel

Conclusion of the 1st course in new engineering and economics.
Poz stavby 11 no.3:171 '63.

1. Vedouci oddeleni vychovy kadru, Ministerstvo vystavby.

HAVELKA, Karol, prof., inz.dr.; TROKAN, Jozef, prof., inz. dr.; ZVARA, Jozef,
doc., inz.

Induction of static quantity functions in calculation of
bridge slabs. Inz stavby 11 no.10:363-373 0 '63.

1. Slovenska vysoka skola technicka, Bratislava, Katedra
betonovych konstrukcii a mostov.

L 10466-66

ACC NR: AP6003734

SOURCE CODE: CZ/0017/65/054/002/0058/0065

AUTHOR: Havelka, Karel--Gavelka, K. (Engineer); Pytlik, Frantisek

ORG: V. I. Lenin Plants, n. p., Plzen (Zavody V. I. Lenina, n. p.)

TITLE: Skoda 235-mva, 200-mw turboalternator

SOURCE: Elektrotechnicky obzor, v. 54, no. 2, 1965, 58-65

TOPIC TAGS: electric rotating equipment,¹ electric engineering

ABSTRACT: The article deals with the largest turboalternator produced at the Plzen plant. The technical data are given and the electromagnetic calculation is discussed. Problems in the development of the design are reviewed, such as the use of hollow conductors in the stator and rotor windings, the distribution of condensate for the stator winding, leaf springs for suspension of the stator core, and the compressor wheel and rotor winding. Orig. art. has: 10 figures. [JPRS]

SUB CODE: 09 / SUBM DATE: 24Nov64

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UDC: 621.313.332-81
2

HAVELKA, Miloslav, promovany ekonom

Socialist methods of improving the work organization in forestry. Les. cas. 9 no.9:769-786 S'63.

1. Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi, Praha.

HAVELKA, Miroslav, promovany ekonom

New wage system for drivers of forestry motor vehicles.
Prace mzda 12 no.2:79-83 F'64.

1. Ministerstvo zemedelstvi, lesniho a vodniho hospodarstvi.

HAVELKA, Miroslav, inz.

Use of the punched card system in technical standardization
of labor. Prace mzda 11 no.8:348-354 Ag '63.

1. Nova hut Klementa Gottwalda, n.p., Kuncice.

HAVELKA, Miroslav, inz.; VOJTEK, Bohumil, inz.

Some results of the examination of intraplant rail transportation within a metallurgic enterprise. Pod org 18 no. 1:14-17 Ja '64.

1. Nova hut Klementa Gottwalda, Ostrava-Kuncice.

3994. TWO-YEAR PLAN AND FURTHER DEVELOPMENT OF OUR GAS-MANUFACTURING
BRANCH. Havelka, M. (Paliva a Voda, 20 Dec. 1946, 26, 173).

The two-year plan (1947-48) involves an investment in the gas-manu-
facturing branch in Czechoslovakia of 400 million crowns taking
into consideration the manufacture of 300 million c.b.m. in 1947 and
420 million c.b.m. in 1948. From the 400 million Kcs., 163 mill.
Kcs are to be spend on gas-piping, 58 mill. Kcs. on the equipment
of furnaces, 52 mill. Kcs on gasholders, 60 mill. Kcs on gasometers.
and the rest on other work.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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HAVFLKA, M.

①
Importance of the Gas Turbine with Special Reference to Metallurgical Applications. M. Havflka. (*Hutnické Listy*, 1953, 8, 2, 59-64). [In Czech]. This is a lecture delivered at the Turbine Conference, Prague, July, 1952, in which an analysis of the economic utilization of blast-furnace gas is made. A steelworks gas balance is shown by a flow diagram. It is concluded that gas turbines operating on surplus blast-furnace gas could utilize economically 3 to 6 milliard cu. m. of gas from the Czechoslovak steel industry.—P. V.

HAVELKA, M.

Utilization of Waste Heat in the Metal Industry. M.
Havolka. (Havolka, Prague). 1934. 4, (8), 166-171. (18
Czechoslovakia) The sources of waste heat in the production of coils
in steelmaking, rolling, forging, and ironmaking are discussed
and the actual and potential possibilities of utilizing this heat
are considered. --P. 7.

H AVELKA, M.

Cyclones for Cleaning Blast-Furnace Gas. M. Havelka. (Hidnická Listy, 1954, 9, (3), 131-140). [In Czech.]
use of iron ores of small particle size and the attendant increased rate of reduction in the blast-furnace results in a high dust content in the flue gases which cannot be reduced sufficiently by conventional dust catchers. By inserting cyclones into the gas stream after the dust collectors most of this iron-rich dust can be recovered. The design of cyclones, and their efficiency and mode of operation are examined, and details of their use in Czechoslovak steelworks for blast-furnace gas cleaning are given. Results of works experiments, relating the dimensions of cyclones, gas velocity, pressure loss, and the nature and quantity of dust separated are discussed.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

H AVELKA, M.

Some Problems of Gas Economy in Czechoslovakia. In: *Technical Works of M. Havelka. (Problems and Perspectives of Czechoslovak Economy and Planning, 1958, 200-211). Annual consumption is given and various measures for better utilization are suggested.*

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HAVELKA, M.

Heating air for blast-furnace draft.

p. 384 (Hutník, Vol. 7, no. 11, Nov. 1957. Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7 no. 2,
February 1958

18

The Control of Blast-Furnace Blast Temperatures. M. Javetskiy. (Hutnicki Listy, 1957, 12, (6), 481-472). (In Czech). - Czechoslovak equipment for the automatic control of blast temperatures is described. Injection of cold air into the hot air arriving from the Cowper stoves may result in inadequate mixing, as the transit time of this air amounts to but a fraction of a second. In the present arrangement this is prevented by mixing the air within the Cowper stoves, into which cold air is blown from six vertically displaced nozzles. The desired final temperature can be obtained within a few minutes, and is then maintained within $\pm 5^\circ$ of the pre-set nominal value by electric servo mechanisms. The controllers, their mode of operation and installation are described, and details of works tests carried out at the Kladno Steelworks are given. - r. p.

HAVELKA, M.

A hundred years of regenerator heating of furnace blast.

p. 818 (Hutnicke Listy) Vol. 12, no. 9, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (SEAI) LC, VOL. 7, NO. 1, JAN. 1958

HAVELKA, M.

TECHNOLOGY

Periodicals: HUTNICKE LISTY Vol. 13, no. 9, Sept. 1958.

HAVELKA, M. Problem of dust in metallurgic works. p. 778.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 5,
May 1959, Unclass.

HAVELKA, M.

Problems and rules in publishing Czechoslovak metallurgic literature. p. 60

HUTNIK. (Ministerstvo energetiky a Svaz rudnych dolu) Praha, Czechoslovakia
Vol. 9, No. 2, Feb. 1959

Monthly List of East European Accessions (EEAI), LV, Vol. 5, No. 7, July 1959
Uncl.

HAVELKA, Miloslav

"High temperature materials" by R.F.Hehemann and G.Mervin Ault.
Reviewed by Miloslav Havelka. Hut listy 16 no.4:291-292 Ap '61.

HAVELKA, Miloslav, promovany ekonom

Application of socialist principles in remuneration of
forestry workers. Les cas 10 no. 7:603-622 J1 '64.

1. Ministry of Agriculture, Forestry and Water Resources
Management, Prague.

HAVELKA, Miloslav

"Modern physical metallurgy" by R.E. Smallman. Reviewed by
Miloslav Havelka. Hut listy 17 no.5:370 My '62.

HAVELKA, Miloslav, promovany ekonom

Standards of technical organization and the improvement of
work organization in forestry. Prace mzda 13 no.3:108-112
Mr '65.

1. Ministry of Agriculture, Forestry and Water Resources,
Prague.

HAVELKA, O.

Salantiny and Pachola Peaks in the Rohoce area. p. 77. KRASY SLOVENSKA.
Bratislava. Vol. 31, no. 1, 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

HAVELKA, O.

Liptovske Hole Mountains in the last century. p. 286

KRASNY SLOVENSKA No. 8, Aug. 1955

CZECHOSLOVAKIA

SOURCE: EAST EUROPEAN ACCESSIONS LIST VOL. 5, no. 7, July 1956

BERAN, Milos; HAVELKA, Stanislav

Reduction reextraction of plutonium with uranium sulfate and
aminosulfonate from 30 per cent tributylphosphate solution.
Jaderna energie 9 no.5:158 My '63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez
u Prahy.

EWI(m)/BDS--AFFTC/ASD--ES
L 10779-63

ACCESSION NR: AP3003778

Z/9000/63/028/005/1603/1606

AUTHOR: Havelka, S.; Beran, M.

TITLE: Radiometric determination of plutonium ¹⁹ in the organic phases of the Purex processes in the presence of a large excess of uranium ⁵³
⁵²

SOURCE: Collection of Czechoslovak chemical communications, v. 28, no. 6, 1963, 1603-1606

TOPIC TAGS: Purex process, Maeck method, analysis, plutonium, uranium, radiometric Pu determination, hydroxylamine, iron (II) sulfamate, thenoyltrifluoroacetone

ABSTRACT: The method of Maeck and associates for the radiometric determination of Pu in the organic phases of the Purex process in the presence of a large excess of U ($1:10^6$) provides for the reextraction and reduction of Pu with hydroxylamine but does not yield quantitative results. An improved version of this method, in which hydroxylamine is replaced by iron (II) sulfamate, has been developed. Pu is separated from the organic phase (30% solution of tributyl phosphate in kerosene) by stripping and reduction with iron (II) sulfamate in

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ACCESSION NR: AP3003778

the presence of 0.2 M HNO_3 and 0.35 M $\text{UO}_2(\text{NO}_3)_2$, oxidation with a sodium nitrite solution, and extraction into a 0.5-M thenoyltrifluoroacetone solution in xylene. The method makes it possible to determine Pu in 10^{-6} M solutions with an accuracy of $\pm 3\%$; Orig. art. has: 1 figure.

ASSOCIATION: Institut fur Kernforschung, Tschechoslowakische Akademie des Wissenschaften, Rez bei Prag (Institute for Nuclear Research, Czechoslovak Academy of Sciences)

SUBMITTED: 06Sep63

DATE ACQ: 18Jul63

ENCL: 00

SUB CODE: NS, EL

NO REF SOV: 000

OTHER: 008

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2/2

CZECHOSLOVAKIA

BERAN, M; HAVELKA, S.

Institute of Nuclear Research of the Czechoslovak Academy
of Sciences (Institut für Kernforschung, Tschechoslowakische
Akademie der Wissenschaften), Rez bei Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, v. 28
No 9, 1963, pp 2510-2512

"Reduction Reextraction of Plutonium with Uran (IV)-Sulfate
and -Amidosulfonate."

HAVELKA, Stanislav

Antimony electrode for pH measurement. Chem listy 57 no.5:
467-478 My '63.

1. Katedra analytické chemie, Vysoká škola chemicko-technologická, Praha.

2
ACCESSION NR: AP4035366

Z/0034/64/000/005/0379/0379

AUTHOR: Kirs, M. (Engineer, Candidate of sciences); Beran, M. (Graduate chemist);
Calotka, R. (Graduate chemist); Havelka, S. (Engineer, Candidate of sciences)

TITLE: Method of extractive separation of uranium, plutonium and zirconium

SOURCE: Hutnicke listy, no. 5, 1964, 379

TOPIC TAGS: extractive separation, uranium, plutonium, zirconium, nitrate,
nitric acid, masking agent, polyphenol, hydroxyl group, carbonyl group, sulfon
group, oxalic acid

ABSTRACT: The invention relates to a method of extractive separation of uranium,
plutonium and zirconium in the form of nitrates from aqueous solutions of nitric
acid with organic solvents. To the aqueous solution of the nitrates of the
separated elements and nitric acid are added, as masking agents, polyphenols
containing at least two hydroxyl groups in positions 1,2 on the benzene ring or
in positions 1,8 on the naphthalene structure, and at least one more hydroxyl,
carbonyl or sulfon group in any other position. This yields a more effective
masking of the zirconium, while the extraction of plutonium is not impaired.

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ACCESSION NR: AP4035366

With the use of the same concentrations of masking agents, the procedure according to the invention yields 3--10 times more effective separation of the above-mentioned elements than with the oxalic acid heretofore used.

ASSOCIATION: none

SUBMITTED: 23Mar63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: GC

NO REF SOV: 000

OTHER: 000

Card 2/2

CZECHOSLOVAKIA

VOJTISEK, O.; HAVELKA, S.; VILIMEK, P.; Research Institute for Rheumatic Diseases (Vyzkumny Ustav Chorob Revmaticckych), Prague, Director (Reditel) Prof Dr F. LENOCH.

"Inclusions in Leucocytes in Urine of Patients Suffering from Rheumatoid Arthritis."

Prague, Casopis Lekaru Ceskych, Vol 105, No 22, 3 Jun 66, pp 601 - 602

Abstract [Authors' English summary modified]: Leucocytes from the urine of patients suffering from rheumatoid arthritis contain granular inclusions closely resembling inclusions in leucocytes in the synovial fluid (so-called R.A. cells), in patients of all ages. As the leucocytes in urine come from the blood, the inclusions are identical with granules described in leucocytes of patients suffering from rheumatoid arthritis. 1 Figure, 5 Western, 1 Czech reference.

LENOCH, F. prof. dr., DrSc.; VITULOVA, V.; HAVELKA, S.; SUSTA, A.

Secondary gout in hematopoietic diseases. Cas. lek. cesk. 104
no.14:387-391 9 Ap '65.

1. Vyzkumny ustav chorob revmatickych v Praze (reditel: prof. dr.
F. Lench, DrSc.)

HAVELKA, Stanislav, MUDr.

Abdominal reflexes in children. Cesk. pediat. 10 no.6:
458-461 July 55.

1. Z detskeho oddeleni OUNZ Decin predn. prim. MUDr. S. Ruzicka.
(ABDOMEN, physiology
reflex in child.)

HAVELKA, Stanislav, MUDr.

Notes on primitive infant reflexes. Cesk. neur. 20 no.1:
39-43 Feb 57.

1. Detske odd. OUNZ Decin, prednosta prim. MUDr. S. Ruzicka.
 (INFANT, physiol.
 primitive reflexes (Cz))
 (REFLEX, in inf. & child
 primitive reflexes (Cz))

HAVELKA, S.

Motor nerve conduction in juvenile progressive polyarthrititis.
Cas. lek.cesk. 103 no.20:543-545 15 My'64

1. Vyzkumny ustav chorob revmatickych v Praze; reditel: prof.
dr. F.Lenoch.

HAVELKA, V.

"For Greater Activity of Our Foremen and Technical Cadres," p. 209.
(Hutnicke Listy, Vol.6, No.5, May 1951, Brno.)

SO:Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September
1953, Uncl.

PECHACEK, J.; HAVELKA, Z., inz.

Tuning the double-drum drives of belt conveyers. Strojirenstvi
14 no.7:546-551 J1 '64.

1. Transporta, Research Worksite, Prague.

HAVELKA, Z., inz.

Stretching force of a long-distance belt conveyer under different operational conditions. Strojirenstvi 13 no.9:669-674 S '63.

1. Transporta, Vyzkumne pracoviste, Praha.

Z/031/62/010/004/002/002
D006/D102

AUTHOR: Havelka, Václav

TITLE: A productive forging technology of shaped rings of larger diameters

PERIODICAL: Strojírenská výroba, v. 10, no. 4, 1962, 204-205

TEXT: A new die for forging large-diameter, shaped rings is described, which already has made possible considerable material and time savings at the CKD Praha n.p. (CKD Prague, n.p.) in Prague. It is a new-type auxiliary tool permitting the combination of open-die and closed-die work. It is made of ordinary die-steel grade, heat-treated to the desired values, and pays for itself already at an annual production of 50 rings. The forging operation with this tool is smooth and without any downtimes so that 120-150 rings can be forged in one shift. Although the forging operation itself requires more time and work than the old technology, large savings are realized due to lower metal allowances and reduced machining costs. There are 4 figures and 1 table.

ASSOCIATION: ČKD Praha, n.p. (ČKD Prague, n.p.), Prague

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HAVEKA, Vaclav

Hot extrusion of aluminum bronzes. Stroj vyr 10 no.12:626-627 '62.

1. Ceskomoravska-Kolben-Danek Praha, n.p., zavod Sokolovo.

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Z/014/61/000/011/001/001
E192/E382

9,2181

AUTHOR: Havelka, Vladimír, Engineer

TITLE: Low-frequency piezo-electric resonators

PERIODICAL: Sdělovací technika, ⁹no. 11, 1961, 409 - 414

TEXT: The equivalent circuit of piezo-electric resonators is discussed in some detail and the relevant parameters of the Czechoslovak-made quartz crystals for frequencies ranging from 1 to 200 kc/s are discussed. The constructional details of piezo-electric resonators are considered and the factors affecting their resonance frequencies, inductance, equivalent series resistance (Q-factor), temperature-frequency dependence and the trimming of the resonance frequencies are discussed. The resonators covering the frequency bandwidth from 1 to 5 kc/s are made of XYt _{-5°}-cuts, which oscillate flexurally in

the longitudinal and transverse planes. The resonator for this range is prepared from two similar cuts, whose surfaces corresponding to the positive end of the axis X are metallized, while the non-metallized surfaces are fixed together. If an
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Low-frequency

alternating voltage is applied to the electrodes. one of the cuts is elongated during the first half-period, while the other is shortened; during the second half-period the situation is reversed and flexural oscillations are thus produced. The construction of such a resonator is illustrated in Fig. 9. The temperature-frequency instability of this type of resonator is about 0.025%, its inductances could be as high as 50 000 H but its Q is as low as 5 000. For the range of 3 to 15 kc/s the same crystal cut is used but the resonators are in the form of bars of square cross-section. These oscillate flexurally and are furnished with four electrodes. The constructional details of the resonator are illustrated in Fig. 11. It is seen that it can be connected as a bipole as well as a three-terminal network. The inductances of such resonators are of the order of 15 000 to 40 000 H and their Q may be as high as 80 000. The temperature-frequency instability is very low at operating temperatures of about 40 °C. The range of 8 - 60 kc/s is covered by resonators which are in the form of rectangular slabs

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E192/E382

Low-frequency

or plates, which oscillate flexurally in the plane of the plate. The oscillations are excited by a suitable arrangement of the electrodes so that the exciting field has opposite polarities in each half of the slab (see Fig. 15). The resonators for this bandwidth can be made of the same cut as before but a more satisfactory temperature-frequency stability can be obtained by employing $NT XY_{40}$, where the temperature-frequency coefficient is of the order of $6 \times 10^{-6}/^{\circ}C$. Even better results can be obtained with $XYt1_{\phi/\Theta}$ but the manufacture of such devices is comparatively difficult. The resonators for 45 - 150 kc/s are in the form of longitudinally oscillating rectangular plates. The resonator can be fitted with two electrodes and connected as a bipole; alternatively, the electrodes can be split and the resonator connected as a quadripole. This type of resonator is illustrated in Fig. 16. The crystals employed in the resonators can be of the $XYt_{-5^{\circ}}$

or $XYt_{+18.5^{\circ}}$ cut. The latter is particularly useful for

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E192/E382

Low-frequency

wideband filters.

There are 21 figures and 4 Soviet-bloc references.

Fig. 9:

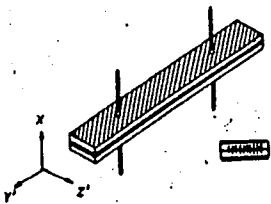
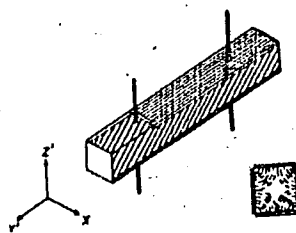


Fig. 11:

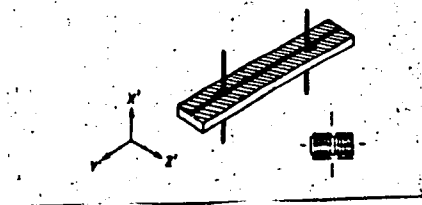


4
continued to plate 5.

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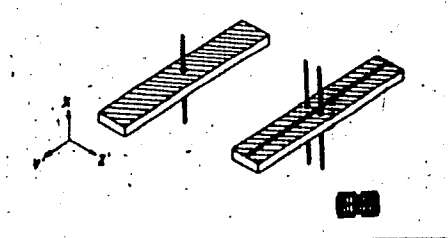
Low-frequency

Fig. 13:



³⁰⁵⁹⁰
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E192/E383

Fig. 16:



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Inst : Universitas Carolina

Title : Influence of 3,4-Benzpyrene on Succinic Dehydrogenase.

Orig Pub : Univ. carolina. Med., 1955, Suppl. No 1, 182-186

Abstract : 10 mg of benzpyrene (I) was introduced intraperitoneally in rats and after 24 hours the succinic dehydrogenase was determined in a liver homogenate. Essential distinctions, after introduction of I, as compared with the control group, were not noted. -- S.Ya. Karmarshteyn

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2371. HAVIAR VI, SISKÁ K. and KLEIN Fr. 2. Med. Klin., 2. Chir. Klin., Pathol.-Anat. Inst., Komenský Univ., Bratislava. Über eine mit Erfolg operierte Herzgeschwulst von interessantem feingeweblichem Aufbau *Successful surgery of a cardiac tumour (fibrolipoleiomyoma)* Cardiologia (Basel) 1956, 29/2 (132—142) Illus. 1

In a 37-year-old man a mixed tumour of the heart was diagnosed before operation. It proved to be a fibrolipoleiomyoma, the myomatous part being most probably derived from blood vessels. The cystic portions of the tumour are regarded as lymphatics and structures resembling lymphangendotheliomata. (VI, 5, 18)

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2229. Results of surgical treatment of mitral stenosis Vysledky chirurgickej liečby mitrálnkej stenózy. HAVIAR V., SÍSKA K., HUBKA M. and KUNA O. II Intern. Klin., Lek. Fak., Univ. Komenského, Bratislava *Bratisl. lek. Listy* 1958, 38 (II) 5 (273--282) Tables 7

Out of 102 patients pure commissurolysis was performed in 84. The direct mortality in the group with commissurolysis was 10.7%. Four patients died from cerebral embolism (4.7%), 2 from diarrhoea and one patient from hyperpyrexia. Forty-six patients were evaluated as control. Based on subjective as well as objective criteria of the evaluation, it is evident that the operation upon the mitral valve for mitral stenosis proved to be effective, and represents a contribution to the treatment of the disease. A helpful factor in the follow-up of results of operation is the postoperative control of weight of the patients. The values of erythrocytes, haemoglobin, haematocrit and of proteinaemia convincingly demonstrate the favourable effect of the operation on the general metabolic processes. A correlation between the type of anatomical lesion of the valve and the functional result following operation was not confirmed. A significant drop of the sedimentation rate of erythrocytes following tonsillectomy justifies the requirement of preoperative removal of foci. Complications during the postoperative course can substantially influence the general state of the patient, and often do not allow a satisfactory evaluation of the result of operation. (XVIII, 9)

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Out of 102 patients pure commissurolysis was performed in 84. The direct mortality in the group with commissurolysis was 10.7%. Four patients died from cerebral embolism (4.7%), 2 from diarrhoea and one patient from hyperpyrexia. Forty-six patients were evaluated as controls. Based on subjective as well as objective criteria of the evaluation, it is evident that the operation upon the mitral valve for mitral stenosis proved to be effective, and represents a contribution to the treatment of the disease. A helpful factor in the follow-up of results of operation is the postoperative control of weight of the patients. The values of erythrocytes, haemoglobin, haematocrit and of proteinaemia convincingly demonstrate the favourable effect of the operation on the general metabolic processes. A correlation between the type of anatomical lesion of the valve and the functional result following operation was not confirmed. A significant drop of the sedimentation rate of erythrocytes following tonsillectomy justifies the requirement of preoperative removal of foci. Complications during the postoperative course can substantially influence the general state of the patient, and often do not allow a satisfactory evaluation of the result of operation.

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Vladimir Haviar.
(MYOCARDITIS)

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Second Internal Medicine Clinic of the Medical
Faculty UK -- Bratislava (II. Interni Klinika
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